

## CLIMATOLOGICAL DATA FOR APRIL, 1912.

## DISTRICT No. 3, OHIO VALLEY.

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## GENERAL SUMMARY.

The weather during April was slightly warmer than the normal for this month, and was in marked contrast in that respect with the three months preceding. Like March, however, it was excessively wet, the most important feature of the month being the unusually large number of rainy days and the large amount of precipitation which fell over nearly all the district and particularly the central and southern portions. The persistence of the rainy weather was exceedingly detrimental, keeping the ground practically water soaked and greatly hampering all farming operations, the season at the end of the month being further behind than for many years past. The cultivation of the soil and planting of staple crops to any great extent was rendered practically impossible. The early potato crop will be practically a failure on this account, and little or no progress could be made in the preparation of ground for the planting of corn or other crops usually put out in April or early May. Wheat and clover wintered badly and many fields are a total failure. On account of the wet weather which prevailed through both March and April, a very small acreage of oats has been sown, and that sown is not in good condition. Floods and freshets occurred in many of the rivers and streams, and lowlands were flooded several times during the month, not only preventing work in them but destroying much of the work that had been done. On account of the absence of harmful temperatures the outlook for fruit and berries is exceedingly favorable, except peaches, which had been damaged by the low temperatures of the winter.

The general rainy conditions which prevailed so largely during the month of March continued practically through April. In all there were seven distinct storm areas of marked energy that passed over the Ohio Valley or near enough to affect the weather conditions in the district. They were as follows: (1) The month began with a general rainstorm, which developed over the central Rocky Mountain Plateau and moved to the central States during the latter part of March in progress across the central valleys and headed for the New England coast. This storm brought general and heavy rains to the Ohio Valley during the period 1st-3d. (2) During the 7th a well-developed storm center passed across the Lake region from the Canadian northwest, causing general rains over the district. (3) In the period 13th-15th, a storm of marked intensity moved from the eastern slope of the Rocky Mountains slowly northeastward over the Lake region, causing general rains in the Ohio Valley. (4) From the 16th to 18th a general storm area which had developed over Texas moved northeastward to the lower Lake region accompanied by general rains, the rainfall being especially heavy in the Ohio Valley. (5) On the 21st and 22d a storm from the southern Rocky Mountain slope moved northeastward across the central valleys and lower Lake region attended

by general and heavy rains. (6) On the 26th and 27th a storm from the central Rocky Mountain Plateau moved across the upper Mississippi Valley and Lake region with a deep trough extending southward into the Ohio Valley and attended by general and heavy rains. The rainfall was especially heavy in Tennessee. (7) In the period 28th-30th a storm from the southern Rocky Mountain Plateau moved from the southwestern States nearly due eastward across the central Mississippi and on through the Ohio Valley to the central Atlantic coast attended by general and excessive rains over the entire district.

The following table summarizes the chief features of meteorological interest for the several sections of the district:

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.					Averag	
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greatest in 24 hours.	num ber of days.	snowfall.
New York.....	45.8	+2.1	78	19	4.78	+1.98	5.08	4.52	1.55	11	8.3
Pennsylvania.....	51.0	+3.0	83	21	4.51	+1.15	5.91	2.51	1.60	15	1.6
Maryland.....	50.2	+4.8	79	21	4.26	+0.56	4.73	3.66	0.88	17	0.5
West Virginia.....	55.6	+4.1	88	20	4.36	+0.57	8.00	1.99	2.52	13	0.2
Ohio.....	53.1	+2.9	88	15	4.80	+1.75	8.10	3.36	2.48	12	1.3
Indiana.....	54.5	+2.5	87	13	5.43	+2.18	8.66	2.21	3.19	12	0.6
Illinois.....	56.2	+2.6	86	27	5.77	+1.93	7.06	4.29	2.90	12	0.2
Kentucky.....	58.4	+2.4	87	25	7.87	+4.22	13.66	5.18	6.30	12	T.
Tennessee.....	60.3	+3.1	88	22	9.50	+5.16	14.80	5.16	4.50	13	0
Alabama.....	61.6	+0.8	87	31	8.24	+4.08	9.67	6.72	2.80	14	0
Georgia.....	59.9	+3.3	82	28	8.13	+2.89	10.72	5.54	2.80	12	0
North Carolina.....	55.2	+3.1	85	20	5.33	+1.42	7.59	3.06	3.00	11	0
Virginia.....	54.7	+3.5	81	21	5.96	+2.44	10.47	3.20	3.04	11	T.

## TEMPERATURE.

When the month opened the severe cold weather which had so largely prevailed during much of the period since the first of the year had seemingly passed, the temperature over the district generally being moderately high for the season. A sharp change to colder, however, set in by the morning of the 2d following the passage of a deep barometric depression, and during the 2d and 3d mean temperatures were considerably below normal with minimum temperatures below freezing and frost occurring quite generally. It continued unseasonably cold over much of the district until the morning of the 4th. High temperatures prevailed on the 4th, 5th, and 6th, maximum temperatures of 70° and over being reached on one or more of those days in most sections of the district. This was followed by a quick reaction to colder, and during the 8th and 9th temperatures were again unseasonably cold. Beginning with the 9th and continuing until the 16th there prevailed a period of unusually high temperatures, the longest and most favorable period of warm weather that had obtained so far during the entire year. A reaction to colder followed the passage of a barometric disturbance on the 17th and the period 17th-19th was generally cold and disagreeable. Nearly normal

temperature obtained during the last decade except on the last day, when it was unseasonably cold.

For the month as a whole the temperature averaged from  $1^{\circ}$  to  $5^{\circ}$  above normal in the various parts of the district, the greater departures, as a rule, occurring over West Virginia and the upper portions of the Ohio Valley proper, and the smaller departures over the Tennessee River Valley.

#### PRECIPITATION.

Precipitation was above normal in all parts of the district, except over a few local areas in West Virginia and in northern Indiana. Over much of the district it was more than double the normal. It was notably heavy over the central and southern parts of the district, but especially over western Tennessee. The total for the month was distributed about as follows: 4 to 6 inches over practically all of the district north of the Ohio River, except that over southern Indiana and extreme southern Illinois it was from 6 to 8 inches; 3 to 6 inches over the eastern portion of the district from southwestern New York southward to southwestern North Carolina; 6 to nearly 14 inches in Kentucky; 8 to nearly 15 inches in Tennessee, and 7 to nearly 9 inches in Alabama. The least precipitation at any station in the district during the month was 2 inches at Sutton, W. Va., the greatest 14.8 inches at Perryville, Tenn.

Over Tennessee and much of southern Kentucky the precipitation was the greatest of record for April in those sections, while over other large areas in the central and southern portions of the district the rainfall of this month has rarely been equaled in April. In Tennessee out of a total of 55 reporting stations 24 had a rainfall of more than 10 inches.

While rains were very frequent and fairly well distributed through the month, there were several periods with general and heavy rainfalls, viz, 1st to 3d, 7th, 12th to 18th, 22d, and 26th to 30th. On the 2d and 3d and again on the 27th and 29th a number of stations in Tennessee reported 24-hour rainfalls ranging from 2.5 to 4 and 4.5 inches. The greatest 24-hour rainfall, however, was 6.30 inches at Hopkinsville, Ky., on the 2d. This is one of the largest, if not the largest, 24-hour rainfall ever recorded in that State.

Snow fell over much of the more northerly sections of the district during the first two or three days of the month. The amount in western New York was from 5 to 13 inches and in western Pennsylvania, north-central Ohio, and east-central Indiana 1 to 5 inches, but in other sections it was mostly inappreciable and melted as it fell. No snow fell south of the Ohio River other than flurries in the mountain section of West Virginia.

#### RIVERS AND FLOODS.

*Upper tributaries of the Ohio.*—In the Monongahela, Youghiogheny, and Kiskiminitas Rivers moderate stages prevailed during the month. In the Allegheny stages were high during the first 5 days, flood height being nearly reached in the lower portions on the 3d. Heavy rains in the early part of April caused marked rises in the Big Sandy, Guyandotte, and Great Kanawha. Tributaries in Ohio were at good stages, but no floods occurred. In the Licking and Kentucky Rivers there were rapid rises from the heavy rains that fell during the first week and again at the end of the month. In the Kentucky River flood stage was not passed at any station below Beattyville. At Beattyville the Kentucky rose from 11.5 feet at 7 a. m. of the 2d to 35.5 feet, or 5.5 feet

above flood stage, by the morning of the 3d, a rise in 24 hours of 24 feet.

*Wabash River.*—Over the lower Wabash River Basin of Indiana and Illinois, extending from about Mount Carmel, Ill., at the mouth of White River, to the Ohio River, the loss from high water and flooding is estimated to be between \$100,000 and \$200,000. Crops and railroads suffered extensively, and business was largely suspended. Besides, there was much damage to the lands by erosion which can not be estimated.

*Cumberland River.*—There were two sharp floods in the Cumberland River during April resulting from the heavy rains during the first and last 3 or 4 days of the month. At Burnside, Ky., the river rose from a stage of 18.5 feet on the 1st to 60.8 feet on the 3d, and again from 8.4 feet on the 26th to 39.2 feet on the 28th. The flood stage at Burnside is 50 feet. The highest water reached there since records began in 1885, is 65.0 feet, March 30, 1902. At Carthage, Tenn., 49.2 feet was reached April 4, which is within 1.2 feet of the record high water at that station and 9.2 feet above flood stage. At Nashville a stage of 46.6 feet on the 7th and 8th is the highest water at that station since 1897. From 1873, when records began at Nashville, to 1897, inclusive, this stage was exceeded during nine different floods. The flood stage at Nashville is 40 feet, and the highest water on record is 55.3 feet, January 22, 1882. At Clarksville, Tenn., the stage, 53.6 feet, reached April 4, is the highest water recorded at that station since its establishment in 1901.

The river remained above flood stage at Nashville and points below for a period of about 10 days during the first flood, and had again passed the flood stage at the end of the month and was rising quite rapidly from the headwaters down. The property loss is estimated to be several hundred thousand dollars, and many families were driven from their homes. The loss, however, would have been greater but for the timely warnings of the Weather Bureau, which resulted in a vast saving of property and life.

*Tennessee River.*—While the Tennessee River was high at Chattanooga, it did not reach the flood stage of 33 feet, the highest water being 30.2 feet on the 5th. In the lower reaches, however, from Florence, Ala., to the mouth the river was above flood stage during the first 10 to 15 days of the month, and in several of the reaches it had been above flood stage since near the middle of March. The damage from the floods in the Tennessee River, however, was inconsiderable, timely warnings having been given and all movable property placed in safety. The principal loss was to growing crops, railroads, washing of lands, and suspension of business.

*Ohio River.*—In the Ohio River proper, flood stages were reached at only a few stations above the falls at Louisville, and while the river was bank full or flooded, no damage of consequence resulted from high waters in the Ohio River as far down as Paducah. The official in charge of the Evansville river district, which extends from below the Falls of the Ohio at Louisville to Mt. Vernon, Ind., states:

While the high water did undoubtedly cause more or less inconvenience to farmers in bottom lands, as well as to some residents of cities along the river, and in some cases necessitated a slight expense, it did not, so far as known, cause any material damage in the Evansville district. The consensus of opinion of those interviewed appears to be that the enormous benefit derived from this particular flood in the way of a deep, rich deposit of silt, deeper and richer than for several years past, over the immense areas of bottom lands in this district, outweighs a thousand-fold the minor damage done by erosion and washouts.

From Paducah, Ky., to Cairo, Ill., damage from overflow of the Ohio River and tributary streams was extensive and costly, particularly in hindering farming operations and the planting of crops, which had already been much delayed by the general wet weather and lateness of the season. The loss resulting from suspension of business and interference with railroad traffic was also large. A large area in western Kentucky and including several towns, the most important of which are Hickman, Columbus, and Wickliffe, was inundated by the breaking of levees and flooding from the Mississippi River. Thousands of families were rendered homeless and large sections of four counties in Kentucky were submerged. This was but a part of the great spring flood of 1912 in the Mississippi River, which in many places was one of the worst since the Mississippi Valley was settled, a full description of which will be published later as a special bulletin of the Weather Bureau.

#### MISCELLANEOUS.

Thunderstorms, wind squalls, hail storms, and damaging rains occurred with unusual frequency during the month and in various parts of the district. The more noteworthy and damaging events of this nature occurred as follows:

*April 1 and 2.*—Excessive rains fell over southern and western Kentucky and nearly the whole of Tennessee. These rains caused widespread damage by flooding the various streams and large areas of the lowland. Transportation facilities were crippled and several railroad wrecks resulted from washouts of tracks. In Tennessee the rains were attended by severe wind storms, the wind doing great damage in several counties. Barns and houses were blown down and trees uprooted and many houses unroofed. In Dixon County, Tenn., the wind made a clean sweep of everything in a path about 200 yards wide and several miles in length. Giant oaks, houses, and fences were blown in every direction and several barns were blown absolutely away. Several other instances equally severe were reported from other counties in that section.

*April 14.*—A large amount of damage was done in Ohio by severe thunderstorms which were quite general throughout the State, but which were especially severe in the north-central counties. The storms were accompanied by high winds and hail which broke down trees and stripped off young leaf and fruit buds. Many windows were broken by the hail. The hailstones were unusually large, some by actual measurement being 2.5 inches in diameter. A passenger train on the Erie Railroad was badly damaged by having all the windows broken by the hail and the passengers were injured by flying glass. The damage to greenhouses was extensive. On the same day thunderstorms accompanied by hail did local damage in various other sections of the district.

*April 16.*—A thunderstorm attended by hail and high winds did considerable damage at Maysville, Ky.

*April 17.*—An electric storm attended by high winds and severe lightning did extensive damage in Wood County, W. Va. A number of barns and outbuildings were blown down and fruit trees uprooted.

*April 21.*—Severe and destructive local storms of tornadic nature swept over many parts of Illinois in the late afternoon of this date. Several persons were killed and property loss of several hundred thousands of dollars was inflicted. The postmaster at Dale, Ill., reports having seen the funnel-shaped cloud that usually attends tornadoes. The width of the path of destruction in his vicinity was about 200 yards.

*April 24-26.*—Lightning struck a gasoline tank in a building adjoining a department store at Minard, Ohio, causing a fire which consumed 13 buildings and caused a loss of some \$60,000. Violent thunder and wind storms occurred in Indiana during the night of the 24th-25th, and in Illinois the night of the 25th-26th.

*April 26-29.*—In this period severe local storms, attended by excessive rains, wind squalls, and lightning occurred in southern Indiana and quite generally over Kentucky and Tennessee, resulting in widespread damage, particularly from the floods of rain.

*April 29.*—The home of J. F. Stanberry, Knoxville, Tenn., was struck by lightning and partly consumed.

TABLE 1.—Climatological data for April, 1912. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.							
<i>New York.</i>																					
Allegany.....	Cattaraugus.....	1,441	6	45.9		78	15	19	4	43	4.52		1.55	13.0	11	10	8	12	nw.	Charles E. Whitney.	
Bolivar.....		1,800	18	45.6	+ 2.1	75	6	19	4	44	4.75	+ 1.98	1.34	4.6	15	8	14	11	w.	Charles F. Hoffman.	
Olean.....	Cattaraugus.....	1,402	4								5.08		0.85	7.2	15	11	4	15	w.	John W. Alles.	
<i>Pennsylvania.</i>																					
Aleppo.....	Green.....	1,135	11	53.5	+ 4.3	80	15	25	4	43	3.31	- 0.50	0.65	T.	13	10	8	12	sw.	J. S. Hinerman.	
Baldwin.....	Butler.....	1,404	6	50.2*		76	15	24	8	40	3.37		1.50	0.5	12	11	6	12	w.	S. H. Templeton.	
Beaver Dam.....	Beaver.....	674	18																sw.	U. S. Engineer.	
Brookville.....	Jefferson.....	1,173	49.6			82	16	23	10	51	2.51	- 0.63	1.60	1.0	11	14	7	17	w.	H. C. Bartholomew.	
Clarion.....	Clarion.....	1,078	27																w.	J. A. Miller.	
Claysville.....	Washington.....	1,127	8	54.6		82	15†	25	4	42	4.90		0.86	1.0	14	12	1	10	w.	E. T. Buchanan.	
Confluence.....	Somerset.....	1,352	28																sw.	Grant Pyle.	
Franklin.....	Venango.....	955	38	48.4	+ 2.2	78	16	25	3†	37	5.39	+ 3.18	0.92	1.0	19	11	3	16	nw.	F. E. Dixon.	
Freeport.....	Armstrong.....	772	39																sw.	Mrs. Anna R. Burtner.	
Greensburg.....	Green.....	708	23																sw.	James G. Cranner.	
Greenville.....	Mercer.....	950	16	48.4	+ 2.6	80	15	25	3	46	5.60	+ 2.63	1.41	4.2	13	14	5	11	nw.	A. M. Orr.	
Indiana.....	Indiana.....	1,350	15	51.6	+ 1.9	80	15	21	20	44	4.95	+ 0.77	0.73	0.5	15	16	6	8	s.	R. W. Wehrle.	
Johnstown.....	Cambria.....	1,184	24	52.7	+ 3.2	88	15	28	8	42	5.00	+ 1.19	0.76	T.	19	5	12	13	sw.	E. C. Lorentz.	
Lock No. 4.....	Washington.....	718	26																w.	R. T. McGowan.	
Lycippus.....	Westmoreland.....	1,420	20	52.9	+ 3.8	80	15	26	8	32	4.22	+ 0.63	0.66	0.7	15				nw.	Murray Forbes.	
Pittsburgh.....	Allegheny.....	842	42	52.6	+ 1.6	80	15	29	3	35	4.32	+ 1.42	1.08	2.5	16	7	13	10	nw.	U. S. Weather Bureau.	
Saegeertown.....	Crawford.....	1,116	21	48.1	+ 3.1	77	15	23	8†	43	5.66	+ 2.57	1.30	6.0	16	3	17	10	nw.	J. G. Apple.	
Skidmore.....	Lawrence.....	1,000	8																w.	W. H. Stoner.	
Somersett.....	Somersett.....	2,250	56	49.2	+ 3.1	79	15†	22	8	38	4.95	+ 0.48	0.85	T.	13	5	13	12	nw.	W. M. Schrock.	
Uniontown.....	Fayette.....	999	24	54.7	+ 4.1	82	15	28	8	39	4.75	+ 1.07	1.26	1.0	17	14	6	10	nw.	Wm. Hunt.	
Warren.....	Warren.....	1,137	23	47.0	+ 2.6	78	15	21	2	43	5.91	+ 2.77	1.10	7.0	17	10	1	19	nw.	Anna Simpson.	
<i>Maryland.</i>																					
Deer Park.....	Garrett.....	2,457	18	50.2	+ 5.4	79	12†	21	8	52	4.38	+ 0.77	0.78	0.5	16					s.	S. P. Specht.
Grantsville.....	do.....	2,351	18	50.0	+ 4.4	79	15	22	8	38	4.73	+ 1.33	0.88		14	8	10	12	w.	J. S. Miller.	
Oakland.....	do.....	2,461	12	50.4	+ 4.7	79	15	23	8†	48	3.66	- 0.42	0.84	1.0	20	8	14	8	w.	R. E. Weber.	
<i>West Virginia.</i>																					
Bancroft.....	Putnam.....	574	10	59.2		88	12†	28	S	51	4.92	+ 0.84	0.87	0	16	14	0	16	ne.	R. E. Dent.	
Beckley.....	Raleigh.....	2,440	12	50.8	+ 2.0	80	16	20	7†	39	5.82	- 0.03	1.82	0	6	11	3	16	w.	John A. Ewart.	
Bens Run.....	Pleasants.....	622	10	56.0	+ 4.7	82	12	28	4	41	4.28	- 0.25	0.90	0	1‡	15	7	8		J. D. Riggs.	
Bluefield.....	Mercer.....	2,563	17	55.6	+ 2.7	79	15	27	S	37	5.59	+ 2.13	1.62	T.	14	13	4			Norfolk & Western Ry.	
Buckhannon.....	Upshur.....	1,472	21	53.6	+ 2.8	83	15	25	4	50	3.32	- 0.98	0.80	0	11	16	7	7	w.	H. A. Darnall.	
Caro.....	Ritchie.....	667	10	56.3	+ 1.9	85	12†	25	4	45	3.77	- 0.06	1.15	0	13	4	24	2	w.	Van A. Zevely.	
Central Station.....	Doddridge.....	900	11	55.4	+ 5.0	84	15	24	4	46	3.92	+ 0.97	0.97	T.	16	7	15	8	sw.	G. W. Sherwood.	
Charleston.....	Kanawha.....	598	24	60.7		84	12	21	31	47	4.28	+ 0.66	1.32	0	15	13	11	6	w.	R. C. Hewes.	
Creston.....	Wirt.....	612	11	57.3	+ 5.7	84	12	25	4	48	3.99	- 0.16	1.01	0	15	12	8	10	w.	J. M. Reed.	
Cuba.....	Jackson.....	544	10	56.0	+ 4.1	83	15	24	4†	42	4.46	+ 1.19	1.08	0	12	12	14	4	sw.	C. T. Perry.	
Doane.....	Wayne.....	7																	w.	L. A. Smith.	
Elkhorn.....	McDowell.....	1,933	19	55.7	+ 2.8	81	15	27	S	39	7.16	+ 3.59	2.00	0	13	10	8	12	sw.	J. J. Lincoln.	
Elkins.....	Randolph.....	1,940	13	52.7	+ 4.1	81	15	25	4	45	2.67	- 0.62	0.82	0.1	14	7	10	13	w.	U. S. Weather Bureau.	
Fairmont.....	Marion.....	879	18	55.1		84	15	26	4	47	4.04	+ 0.40	1.28	T.	18	15	5	10	s.	F. P. Hall.	
Glenville.....	Gilmer.....	738	22	57.6	+ 5.0	87	12	24	4	49	3.15	- 0.63	0.60	T.	12	17	0	13	sw.	Joe N. Craddock.	
Grafton.....	Taylor.....	988	18	56.5	+ 5.4	84	15	26	4	46	3.95	+ 0.57	1.01	0	16	14	6	10	w.	Joseph Gerken.	
Green Sulphur Springs.....	Summers.....	1,600	16	55.1	+ 4.7	83	15	24	4	46	4.55	+ 1.33	1.53	T.	15	9	8	13	w.	Arthur George.	
Hinton.....	do.....	1,400	21	56.8	+ 3.7	85	15	28	4	46	4.82	+ 1.52	1.26	0	11	13	5	12	sw.	J. B. Lavender, C. E. R. C. Ferguson.	
Holcomb.....	Nicholas.....	1							3†	4	4.20		0.75	4.0	9	11	2	16			
Huntington.....	Cabell.....	510	17	57.8	+ 4.5	83	16	30	4	38	5.34	+ 1.60	1.58	0	14	1	15	w.	L. H. Hutchinson.		
Lewisburg.....	Greenbrier.....	2,200	21	54.2*	+ 4.7	80	15	24	4	45	3.37		1.34	T.	19	20	6 <sup>a</sup>	3 <sup>a</sup>	se.	Geo. T. Argabrite.	
Logan.....	Logan.....	665	10	60.1	+ 4.4	81	14†	30	4	40	5.24	+ 0.27	1.81	0	13	10	12	8	se.	Dr. J. E. McDonald.	
Lost Creek.....	Harrison.....	1,033	15	53.0	+ 3.4	81	15	21	4	45	3.35	- 0.18	1.02	0	12	9	14	4	12	sw.	Allen Smith.
Madison.....	Boone.....	704	8	57.4		84	12†	29	4†	46	4.12		1.42	0	12	10	12	12	24	w.	S. E. Bradley.
Mannington.....	Mariou.....	967	10	54.0		82	15	23	4	46	3.23	+ 0.93	0.98	0.30	11	8	11	11	w.	Jas. A. Morgan.	
Marlinton.....	Pocahontas.....	2,169	17	52.4	+ 5.2	76	12†	22	4	48	3.17	+ 0.13	0.42	0	12	15	12	3	3	sw.	C. J. McCarty.
Morgantown.....	Marshall.....	1,250	36	55.3*	+ 4.3	81	15	27	4	39	3.30	- 0.05	0.00	1.00	T.	13	12 <sup>a</sup>	8 <sup>a</sup>	9 <sup>a</sup>	nw.	Horace Atwood.
Moundsville.....	Monongalia.....	640	10	55.9	+ 4.2	84	15	26	4	44	2.96	- 0.23	0.64	T.	13	14	1	15	w.	M. L. Brown.	
New Cumberland.....	Hancock.....	987	14	54.0	+ 4.8	83	15	27	4†	50	3.94	+ 0.37	1.50	T.	11	9	8	13	s.	Frank S. Evans.	
New Martinsville.....	Wetzel.....	634	18	55.8	+ 4.0	84	12	24	4	44	3.46	- 0.16	0.60	T.	9	16	5	9	s.	Wm. Ankron.	
Nuttallburg.....	Fayette.....	2,252	18	56.6	+ 3.7	83	15	31	4	37	4.02	+ 1.11	1.09	T.	12	10	10	10	s.	Miss Donna Tully.	
Parkersburg.....	Wood.....	638	24	56.6	+ 3.7	83	15	29	S	47	4.24	- 0.75	0.98	0	8	11 <sup>b</sup>	9 <sup>b</sup>	2 <sup>b</sup>	s.	U. S. Weather Bureau.	
Parsons.....	Tucker.....	1,062	12	54.1	+ 6.0	83	15	21	4†	50	2.95	- 0.98	0.75	T.	11	8	19	3	w.	J. W. Swisher.	
Philip.....	Barbour.....	1,192	18	56.2	+ 5.8	86	15	25	4	47	3.48	- 0.69	0.72	0.4	16						

TABLE 1.—Climatological data for April, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Sky.	Prevalent wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<b>Ohio—Continued.</b>																				
Canal Dover.	Tuscarawas.	884	19	52.4	+ 4.3	80	11	27	9	43	5.28	+ 2.19	1.14	1.0	13	7	15	8	s.	
Canton.	...	1,089	29	51.0	+ 2.9	79	12†	27	8	41	5.95	+ 2.82	1.24	4.5	15	14	1	15	sw.	
Cardington.	Morrow.	1,010	17	...	...	...	...	...	...	4.86	+ 1.81	1.80	3.6	9	...	...	...	...	sw.	
Chillicothe.	Ross.	630	9	...	...	...	...	...	...	5.17	...	1.85	10	...	...	...	...	...	...	
Cincinnati.	Hamilton.	628	41	56.9	+ 2.6	82	15	30	3	33	5.62	+ 2.67	1.58	T.	15	10	8	12	sw.	
Circleville.	Pickaway.	624	24	54.8	+ 3.0	84	12	29	4	38	4.94	+ 2.21	1.93	T.	14	19	0	11	s.	
Clarington.	Monroe.	600	9	53.8	...	83	16	24	4	43	4.24	...	0.70	0.8	0	15	9	9	12	sw.
Columbus.	Franklin.	918	34	53.4	+ 2.4	79	15	28	3	31	4.20	+ 1.33	0.98	0.8	15	9	10	11	sw.	
Coshocton.	Coshocton.	770	3	...	...	...	...	...	...	4.99	...	0.92	12	...	...	...	...	...	...	
Dayton (1).	Montgomery.	899	...	53.6	+ 2.0	80	15	23	3	31	4.94	+ 2.04	1.17	3.0	14	11	9	10	sw.	
Dayton (2).	do.	790	31	54.4	+ 2.7	82	12	23	3	35	5.70	+ 3.02	1.03	14	...	...	...	...	...	
Delaware.	Delaware.	896	15	51.7	+ 3.1	78	12†	26	3	35	3.81	+ 0.89	0.85	1.0	12	18	1	11	nw.	
Demos.	Belmont.	1,325	24	51.4	+ 1.4	78	12†	26	8	36	4.82	+ 1.56	1.50	0.2	18	14	6	10	sw.	
Dennison.	Tuscarawas.	846	2	53.8	...	82	15	27	4	44	5.09	...	1.63	14	12	12	6	n.	...	
Frankfort.	Ross.	745	20	56.4	+ 4.7	85	12†	26	4	41	4.16	+ 1.03	1.20	0	9	12	7	11	s.	
Gallipolis.	Gallia.	...	...	...	...	...	...	...	...	3.36	...	1.30	10	...	...	...	...	...	...	
Garrettsville.	Portage.	1,005	28	49.0*	+ 3.1	78	15	24 <sup>b</sup>	3	44	4.74	+ 1.74	4.1	...	...	...	...	...	e.	
Granville.	Licking.	960	30	52.2	+ 2.6	80	12	27	4	40	4.42	+ 1.57	0.94	0.2	15	14	1	15	...	
Gratiot.	do.	1,000	23	53.0	+ 2.9	78	12	27	4	45	4.45	+ 1.55	1.00	0.8	13	12	9	12	w.	
Green.	Adams.	500	19	56.4	+ 3.4	84	11	29	8	46	4.37	+ 1.23	0.82	0.1	11	9	3	16	w.	
Green Hill.	Columbiana.	1,135	49	49.2	+ 2.7	78	15	24	4	42	3.56	+ 0.60	1.09	1.5	13	9	4	7	sw.	
Greenville.	Darke.	1,020	26	52.5	+ 2.6	81	12	22	3	45	4.18	+ 1.08	0.63	0.3	14	9	9	12	s.	
Hamilton.	Butler.	601	...	...	...	...	...	...	...	7.22	...	1.87	15	0	15	17	4	9	...	
Haydenville.	Hocking.	700	...	55.8	...	88	15	25	8	51	4.49	...	1.50	9	19	2	9	sw.		
Hillsboro.	Highland.	1,063	33	54.8	+ 2.5	80	12†	27	3	36	3.37	+ 0.12	1.64	T.	11	11	8	11	sw.	
Ironton.	Lawrence.	575	29	61.0*	+ 8.0	89 <sup>b</sup>	12	29 <sup>b</sup>	4	46	5.84	+ 2.49	2.26	0	14	16	8	6	sw.	
Jacksonburg.	Butler.	975	44	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Kanton.	Hardin.	1,015	20	49.4	- 0.9	78	12	18	3	40	3.69	+ 0.24	1.00	2.0	8	11	10	9	w.	
Killbuck.	Holmes.	1,087	19	51.5	+ 2.8	79	12	28	4	45	4.99	+ 1.99	1.45	2.0	14	16	4	10	se.	
Lancaster.	Fairfield.	898	17	55.0	+ 4.2	77	14†	30	4	34	4.75	+ 1.61	1.44	T.	9	17	3	10	nw.	
McConnelsville.	Morgan.	710	28	54.2	+ 3.4	83	15	25	4	41	5.54	+ 2.44	1.35	0.2	15	9	10	11	sw.	
Marietta.	Washington.	627	92	56.8	+ 3.5	84	15	33	4	41	3.87	+ 0.49	1.04	0	14	13	9	8	...	
Marion.	Marion.	980	34	53.4	+ 3.8	82	12	24	3	37	4.28	+ 1.35	1.15	6.0	10	10	10	10	se.	
Milfordton.	Knox.	1,200	20	51.4	+ 4.1	80	12	26	8	42	3.75	+ 0.81	1.74	1.0	9	17	6	7	sw.	
Milligan.	Perry.	875	19	53.8	+ 3.6	84	15†	24	4	46	4.67	+ 1.63	0.99	T.	11	10	13	7	sw.	
Millport.	Columbiana.	1,145	19	49.9	+ 1.8	78	15	24	11	46	4.07	+ 0.99	1.40	T.	14	4	16	10	sw.	
Nelle.	...	650	12	52.0	+ 2.6	79	12†	25	4	40	5.17	+ 2.32	1.25	T.	12	12	7	11	...	
New Alexandria.	Coshocton.	1,060	27	51.3	+ 1.2	83	12	26	4†	35	8.10	+ 4.55	2.00	3.0	8	14	5	11	w.	
New Berlin.	Jefferson.	1,100	19	49.1	+ 1.4	78	16	23	3†	40	4.59	+ 1.58	1.85	1.0	10	17	3	10	sw.	
New Waterford.	Columbiana.	1,053	17	50.3	+ 3.5	79	15	26	4	43	4.66	+ 1.47	1.36	7	10	15	5	11	nw.	
Ohio State University.	Franklin.	757	29	53.6	+ 3.7	79	12	28	3†	38	4.69	+ 1.82	1.03	12	14	5	11	sw.		
Pataksas.	Licking.	1,015	20	52.7	+ 3.0	80	12	26	4	40	4.98	+ 1.73	1.24	1.5	14	16	17	7	w.	
Peebles.	Adams.	645	1	55.4	...	82	12†	22	4	49	6.80	...	2.03	T.	14	11	8	8	sw.	
Philo.	...	1,018	17	54.5	+ 3.8	82	15	28	8	36	4.85	+ 1.80	1.62	T.	10	15	7	8	se.	
Piqua.	Clark.	847	2	...	...	...	...	...	...	3.86	...	0.70	3.2	11	12	7	11	s.		
Plattsburgh.	Scioto.	1,130	19	52.3	+ 2.2	78	12	21	3	31	5.12	+ 2.49	0.98	3.0	11	10	9	11	sw.	
Portsmouth.	Marion.	527	81	57.6	+ 2.0	84	15	30	3†	38	4.93	+ 1.69	1.63	0	13	11	4	15	sw.	
Prospect.	...	909	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Rittman.	Wayne.	990	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Shenandoah.	Richland.	1,100	20	49.3	+ 2.3	76	15	20	3	34	4.01	+ 0.80	1.18	4.0	12	5	17	8	w.	
Sidney.	Shelby.	985	29	53.4	+ 3.5	82	15	21	3	38	4.08	+ 1.11	1.28	2.2	15	2	13	sw.		
Somerset.	Perry.	1,080	13	53.0	+ 2.8	81	12†	27	8	43	4.09	+ 0.58	1.26	0.5	15	14	8	8	s.	
Springfield.	Clark.	980	18	...	...	...	...	...	...	5.28	+ 2.50	1.20	0.5	12	10	9	9	sw.		
Summerfield.	Noble.	1,187	6	52.4	...	82	15	25	4	46	4.99	...	1.64	0.5	18	5	6	6	sw.	
Syracuse.	Meigs.	583	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Thurman.	Gallia.	696	19	58.2	+ 4.4	85	12	27	8	42	3.79	+ 1.38	0.98	0	8	10	5	15	...	
Urbana.	Champaign.	1,031	44	52.8	+ 3.5	80	12	18	3	39	5.42	+ 2.30	1.26	1.65	0	12	7	10	sw.	
Warren.	Trumbull.	900	23	50.2	+ 3.3	78*	15	26 <sup>b</sup>	4	40	6.53	+ 3.67	2.48	5.2	11	...	...	...	sw.	
Waverly.	Pike.	550	29	55.0	+ 1.9	84	12	24	3†	45	4.83	+ 1.60	1.35	T.	17	12	2	16	s.	
Wayneville.	Warren.	700	27	53.4	+ 3.1	80	15	25	3	30	5.24	+ 2.18	1.85	0.5	12	10	9	11	sw.	
Wooster.	Wayne.	1,030	33	50.0	+ 2.3	78	12	23	19	42	5.58	+ 3.07	1.30	4.0	14	13	6	11	nw.	
Youngstown.	Mahoning.	846	19	...	...	...	...	...	...	4.82	+ 2.58	0.94	3.0	13	14	1	15	sw.		
Zaneville.	Muskingum.	700	25	...	...	...	...	...	...	3.76	+ 1.24	0.91	2.00	0	10	13	0	17	s.	
<b>Indiana.</b>																				
Anderson.	Madison.	892	17	53.2	+ 2.4	79	15	25	3	43	4.65	+ 1.42	1.25	1.5	9	13	7	10	s.	
Attica.	Fountain.	522	2	...	...	...	...	...	...	5.87	...	1.53	5.0	16	11	8	11	sw.		
Bloomington.	Monroe.	744	17	53.8	+ 2.6	80	15	29	8	41	6.62	+ 3.38	1.53	0	15	12	5	10	sw.	
Bluffton.	Wells.	835	17	52.7	+ 2.9	81	12	23	2	37	3.96	+ 0.88	0.96	0	15	12	5	10	sw.	
Butlerville.	Jennings.	767	27	56.5	+ 2.9	83	15	28	8	34	6.70	+ 3.17	2.57	1.5	11	13	7	10	s.	
Cambridge City.	Wayne.	941	21	55.2	+ 5.7	80	12†	22	3	39	5.2									

TABLE I.—Climatological data for March, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>Indiana—Continued.</i>																				
Moore's Hill.	Dearborn.	980	11	55.6 + 4.9	80	12†	27	3	37	6.77	+ 3.04	2.60	T.	13	13	4	13	sw.	W. S. Bigney.	
Mount Vernon.	Posey.	410	26	58.2 + 2.3	86	15	34	19	34	5.02	+ 0.50	1.10	0	13	14	2	14	se.	Guy B. Green.	
Nashville.	Brown.	54.5	—	80	15	26	31	42	5.51	—	1.17	T.	11	2	16	12	w.	W. C. Goble.		
Paoli.	Orange.	611	15	54.8 + 1.5	82	15	27	8	45	5.99	+ 2.65	1.92	T.	12	13	8	9	sw.	James A. Gillum.	
Princeton.	Gibson.	481	30	56.8 + 2.4	84	15	30	3	41	6.82	+ 3.31	2.90	0	11	11	4	15	sw.	Albert Mills.	
Richmond.	Wayne.	972	27	52.8 + 2.7	82	12	20	3	41	5.01	+ 2.08	0.81	0.5	16	6	16	8	sw.	Walter Vossler.	
Rochester.	Fulton.	775	7	51.0 + 1.1	73	12	24	3	30	2.21	—	0.65	0	10	15	3	12	—	G. P. Keith.	
Rockville.	Parke.	722	26	51.8 - 0.5	72	11	27	3	33	5.27	+ 1.78	1.57	1.0	9	6	11	13	sw.	C. A. Lee.	
Rome.	Perry.	370	9	60.0 + 0.6	86	15	32	19	34	5.78	—	1.57	0	12	15	8	7	sw.	Adam Anspach.	
Salamonia.	Jay.	7	51.0 + 0.0	79	12	13	3	33	4.51	—	1.05	7.0	14	13	7	10	sw.	S. A. Armstrong.		
Salem.	Washington.	717	19	56.2 + 3.2	84	15	27	19	43	6.35	+ 3.03	2.15	0.5	11	7	14	9	sw.	Emmet S. Allen.	
Scottsburg.	Scott.	570	18	58.8 + 4.2	82	12†	33	8	35	6.88	+ 3.92	2.51	T.	10	9	10	11	s.	Frank H. Park.	
Seymour.	Jackson.	310	25	57.9 + 4.0	87	11	25	3	46	7.37	+ 3.94	2.86	T.	10	7	17	6	w.	J. Robt. Blair.	
Shelbyville.	Shelby.	788	8	54.7 + 0.0	80	12	27	3	36	5.55	—	1.01	2.0	12	11	11	8	sw.	Edgar G. Hodson.	
Shoals.	Martin.	523	5	56.2 + 2.2	79	14†	30	3	33	6.19	+ 2.51	1.50	0	15	15	3	12	sw.	Rev. G. Halleck Rowe.	
Terre Haute.	Vigo.	498	22	56.2 + 2.2	79	14†	30	3	33	5.03	+ 2.41	1.04	T.	13	10	7	7	s.	Prof. R. G. Gillum.	
Wheelersburg.	Fountain.	612	13	54.6 + 3.1	80	12	27†	3	36*	5.03	—	—	—	—	—	—	—	—	L. A. Culver, jr.	
Vevay.	Switzerland.	525	31	57.8 + 3.2	85	15	33	8	36	6.05	+ 2.17	1.15	0	15	12	5	13	s.	Miss Frederica Boerner.	
Vincennes.	Knox.	431	20	57.8 + 3.2	85	15	33	8	36	7.37	+ 3.84	2.62	T.	12	15	6	9	sw.	Garrett V. List.	
Washington.	Davies.	484	16	56.8 + 3.8	83	15	32	3†	32	4.28	—	1.08	T.	16	6	21	3	sw.	Charles C. Feagans.	
Whitestown.	Boone.	529	4	51.4 + 3.5	81	12	28	3†	40	5.42	+ 2.07	2.48	0	11	11	6	6	sw.	Clyde O. Laugher.	
Winona Lake.	Kosciusko.	865	5	50.0 + 3.0	78	12	23	3	37	2.66	—	0.73	T.	9	6	18	10	ne.	Rev. Albert A. Youn.	
Worthington.	Greene.	526	30	56.8 + 3.0	83	15	28	19	35	4.66	+ 1.14	1.40	0	11	13	10	7	sw.	D. W. Soliday.	
<i>Illinois.</i>																				
Albion.	Edwards.	531	21	57.8 + 2.7	83	12†	32	19	35	5.79	+ 2.18	2.25	0	11	13	6	11	sw.	B. F. Michels.	
Carmi.	White.	399	1	—	—	—	—	—	—	5.48	—	1.07	2.5	9	11	10	9	—	Daniel Berry.	
Casey.	Clark.	645	9	55.4 + 2.3	79	14	30	8†	33	4.29	+ 0.93	1.05	T.	14	7	11	12	s.	William Chenoweth.	
Charleston.	Coles.	720	27	55.4 + 2.3	79	14	30	8†	33	5.42	+ 2.65	1.43	0.3	16	15	2	13	sw.	Jacob B. Daisy.	
Danville.	Vermilion.	604	11	54.6 + 2.7	79	12†	27	3	35	7.06	+ 2.61	2.58	0	12	17	6	7	s.	J. J. Lemon.	
Equality.	Gallatin.	421	14	60.6 + 4.3	86	15	36	18	30	5.42	+ 2.07	2.48	0	11	11	13	6	se.	Dr. L. W. Gordon.	
Fairfield.	Wayne.	495	19	57.8 + 2.3	83	12	30	2†	37	4.92	+ 1.11	2.35	0	10	14	9	7	nw.	George A. Tromly.	
Flora.	Clay.	495	26	57.6 + 3.2	82	12	30	3†	35	7.04	+ 2.92	1.64	0	12	11	6	13	sw.	Joseph S. Peak.	
Golconda.	Pope.	500	34	60.1 + 2.4	86	15	35	3†	36	7.04	+ 3.44	2.86	0	12	15	5	10	s.	Dr. Daniel Lawrence.	
Hooperston.	Vermilion.	715	10	52.4 + 2.2	79	12	27	3	34	5.77	+ 1.64	1.48	T.	14	13	10	7	sw.	S. F. Hoskinson.	
McLeanboro.	Hamilton.	462	29	57.8 + 2.2	85	15	31	8	39	6.45	+ 2.71	—	0	12	15	5	10	s.	Prof. W. C. Fairweather.	
Metropolis.	Massac.	346	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	John Barfield.	
Montrose.	Effingham.	599	1	55.0 + 3.0	79	14	29	3	37	6.61	—	1.45	—	12	12	6	6	sw.	J. C. Spitzer.	
Mount Carmel.	Wabash.	424	11	57.2 + 3.1	84	15	33	8†	37	6.70	+ 2.79	2.68	T.	13	15	3	12	s.	Mrs. H. M. Phillips.	
New Burnside.	Johnson.	613	17	57.3 + 1.0	84	15	31	8	34	5.84	+ 1.43	1.35	0	13	16	2	12	s.	Thomas H. McCabe.	
Newton.	Jasper.	484	1	—	—	—	—	—	—	5.02	—	1.51	—	12	16	5	9	—	J. M. Hicks.	
Olney.	Richland.	486	25	57.8 + 3.0	84	15	31	3†	34	4.50	+ 0.73	0.99	T.	11	6	11	13	sw.	Victor E. Phillips.	
Palestine.	Crawford.	500	30	57.2 + 3.2	81	15	32	3†	32	4.53	+ 0.89	1.70	T.	15	9	5	12	s.	Duane Shaw.	
Paris.	Edgar.	600	19	54.8 + 3.5	83	14	28	3	38	5.19	+ 1.59	1.42	T.	12	8	17	5	sw.	H. P. Twyman.	
Philo.	Champaign.	700	20	53.2 + 2.0	77	12	29	8	36	5.22	+ 1.81	1.08	0	10	14	8	11	sw.	H. A. Burr.	
Rantoul.	do.	768	21	52.0 + 1.5	77	11†	28	3	37	5.91	+ 2.23	1.20	T.	13	16	3	11	sw.	William Breiner.	
Rileyville.	Saline.	400	15	—	—	—	—	—	—	6.07	+ 2.47	2.90	0	12	14	1	15	s.	W. H. Thornberry.	
Shawneetown.	Gallatin.	307	3	—	—	—	—	—	—	6.94	—	1.23	0	14	—	—	—	—	Mrs. Mary O. Spivey.	
Tuscola.	Douglas.	644	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E. W. Lester.	
Urbana.	Champaign.	725	10	52.3 + 2.7	75	12†	29	3	35	5.80	+ 1.56	1.52	T.	11	7	17	6	sw.	Prof. J. G. Mosier.	
<i>Kentucky.</i>																			—	
Alpha.	Clinton.	18	60.2 + 3.2	83	12	34	4	38	13.66	+ 9.39	3.90	0	9	12	2	16	s.	W. W. Hicks.		
Anchorage.	Jefferson.	700	11	56.1 + 3.4	83	15	28	8†	37	9.63	+ 5.69	3.50	0	13	3	14	sw.	C. E. Barrett.		
Barstown.	Nelson.	637	15	59.6 + 5.2	85	12	32	19	42	9.21	+ 5.33	1.84	0	13	11	6	13	se.	T. S. Talbott.	
Beattyville.	Lee.	650	8	54.2 + 3.4	82	28	25	4†	52	6.88	+ 1.86	1.68	0	12	12	6	12	w.	G. W. Cann.	
Beaver Dam.	Ohio.	441	9	59.2 + 4.4	87	13	32	19	46	7.36	+ 2.74	1.90	0	11	12	5	13	s.	W. T. Austin.	
Berea.	Madison.	1,070	11	61.4 + 6.9	83	12	31	4†	40	5.59	+ 2.00	1.36	0	9	14	9	7	sw.	C. F. Rumold.	
Blandville.	Ballard.	445	31	60.0 + 2.8	81	15	39	8†	26	7.81	+ 3.62	1.72	0	13	7	11	12	sw.	E. W. Horr.	
Bowling Green.	Warren.	500	23	60.2 + 2.3	82	15	31	9	47	11.49	+ 7.72	4.54	0	10	10*	2*	17*	s.	Mrs. L. G. Case.	
Burnside.	Pulaski.	773	21	60.6 + 3.0	83	15	35	19	28	7.70	—	1.55	0	12	6	16	0	18	—	G. M. Estes.
Calhoun.	McLean.	397	6	60.6 + 3.0	83	15	35	19	28	5.18	+ 1.72	1.70	0	17	15	4	11	sw.	W. A. Taylor.	
Catlettsburg.	Boyd.	544	23	60.3 + 3.1	83	12	31	19	40	6.09	+ 2.37	1.90	0	13	10	7	13	nw.	Mrs. Mertie M. Bruns.	
Earlington.	Hopkins.	370	22	60.3 + 3.1	83	12	31	19	40	6.09	+ 2.37	1.90	0	13	10	7	13	sw.	Brick Southworth.	
Edmonton.	Metcalf.	600	21	59.8 + 4.0	82	12	31	19	42	7.89	+ 3.79	2.16	0	12	7	13	10	s.	Miss Lee Ray.	
Eubank.	Pulaski.	1,177	18	56.0 + 2.1	82	12	28	8	41	7.07	+ 3.26	2.70	0	12	10	0	20	s.	Mrs. Kathie Payne.	
Falmouth.	Pendleton.	530	23	—	—	—	—	—	—	7.06	+ 3.83	1.60	0	13	13	3	14	—	J. V. Oldham.	
Farmers.	Rowan.	668	6	56.6 + 3.5	84	12†	33	4	47	5.28	—	2.50	0	6	17</td					

TABLE 1.—Climatological data for April, 1912. District No. 3—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lows.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unimpaired.	Number of rain days, 0.01 inch or more.	Number of partly cloudy days.	Number of clear days.			
<b>Tennessee.</b>																				
Ashwood.	Maury.	725	33	61.8	+ 3.5	80	12†	34	3	36	10.18	+ 5.43	2.10	0	13	5	7	18	s.	Mrs. Joseph W. Fleming.
Benton.	Polk.	880	27	60.8	+ 1.4	83	12	28	8	41	6.35	+ 2.21	1.80	0	11	6	14	10	s.	George L. Williams.
Bird's Bridge.	Greene.	6									7.72		1.36	0	16	12	3	15	e.	David B. George.
Bluff City.	Sullivan.	15									6.14	+ 3.01	1.91	0	15	10	0	20	e.	John W. Fisher.
Byrdstown.	Pickett.	1,026	19	61.7	+ 5.3	83	12	34	19	36	8.38	+ 3.84	1.89	0	10	3	10	17	s.	John Lacy.
Carthage.	Smith.	500	28	61.8	+ 3.2	83	11†	32	3	37	10.00	+ 5.81	3.10	0	14	12	1	17	se.	Earl C. Pickering.
Cedar Hill.	Robertson.	625	12	61.7	+ 4.1	88	14	33	19	40	10.42	+ 5.77	2.50	0	16	11	12	7	s.	J. Frank Ruffin.
Celina.	Clay.	494	9								11.01		3.42	0	11	12	1	17	se.	Charles M. Anderson.
Center Point.	Chester.	400	15																w.	Halbert H. Bailey.
Charleston.	Bradley.	709	15																s.	John T. Weeks.
Chattanooga.	Hamilton.	808	33	61.0	+ 1.0	80	12	39	19	33	9.55	+ 5.16	2.23	0	15	6	9	15	s.	U. S. Weather Bureau.
Clarksville.	Montgomery.	500	49	61.5	+ 3.8	82	14	35	19	37	10.22	+ 5.53	3.06	0	14	8	13	9	s.	Prof. James A. Lyon.
Clinton.	Anderson.	800	24								9.34	+ 5.09	2.05	0	16	12	0	18	s.	Hugh Evans.
Crossville.	Cumberland.	1,895	58.0			78	27	32	37	36	11.18		2.27	0	13	14	10	6		J. E. Converse.
Dandridge.	Jefferson.	8									6.61		2.10	0	12	13	2	15	w.	James E. Swann.
Decatur.	Meigs.	850	16	60.6	+ 2.8	83	12	31	9	43	8.74	+ 3.71	2.00	0	16	11	13	6	sw.	J. Worth Lillard.
Dickson.	Dickson.	800	16	61.0	+ 3.2	82	14†	31	18	40	10.17	+ 5.26	3.00	0	8	9	10	11	s.	Nathan R. Sugg.
Dover.	Stewart.	500	17	61.2	+ 2.8	83	12†	32	19	38	11.02	+ 7.18	1.81	0	12	6	9	15	s.	Asa M. Tippit.
Dunlap.	Sequatchee.	726	3	61.6		81	12†	33	4†	43	8.48		2.00	0	16	7	13	10		S. Bradford Boyd.
Elizabethton.	Carter.	1,575	22								6.05	+ 2.67	1.57	0	13	11	0	19	e.	Charles Boyd.
Erasmus.	Cumberland.	1,850	15	56.9	+ 4.3	79	12†	27	9	46	12.24	+ 6.77	4.50	0	13	6	14	10	se.	Mrs. Sara E. Ashley.
Florence.	Rutherford.	560	30	60.6	+ 1.7	80	12	35	19	34	9.81	+ 5.67	2.18	0	12	9	11	10	s.	Erastus P. Bell.
Franklin.	Williamson.	648	22	61.0	+ 3.1	81	12	35	19	35	9.98	+ 4.97	2.33	0	12	10	8	12		Young M. Rizer.
Hall's Hill.	Rutherford.	10									10.05	+ 2.80		0	11	11	2	17	s.	Edward F. Wright.
Hartman.	Roane.	841	17																	Mrs. Mary Lutzelman.
Hohenwald.	Lewis.	983	26	61.2	+ 3.0	82	28	31	3	38	10.57	+ 5.88	2.70	0	13	7	17	6	s.	Capt. H. Paul Seavy.
Iron City.	Lawrence.	600	15	60.8	+ 2.1	84	28	31	3†	44	9.32	+ 4.90	3.45	0	14	2	25	3	sw.	Calvin C. Maddox.
Jefferson City.	Jefferson.	2																		Ward Crosby.
Johnson City.	Washington.	1,620	1	58.4	+ 3.5	83	12	29	4	40	6.82	+ 3.13	1.70	0	13	11	11	8	w.	Miss Sallie B. Mathews.
Johnsonville.	Humphreys.	364	16	62.2	+ 3.6	84	14	32	19	41	8.07	+ 3.47	1.83	0	14	6	13	11	s.	Henry Crumbliss.
Kingston.	Roane.	21																		U. S. Weather Bureau.
Knoxville.	Knox.	977	41	59.6	+ 2.2	82	12	35	4	34	7.98	+ 5.12	2.68	0	15	10	0	20	s.	H. Logan Fields.
Lebanon.	Wilson.	522	3	61.2		82	12	33	19	37	11.40		2.34	0	13	9	4	17	s.	Dr. Robert D. Crutcher.
Lewisburg.	Marshall.	727	17	61.4	+ 3.4	82	28	33	19	40	12.60	+ 8.51	3.36	0	14	6	11	13	s.	Robert W. Clark.
Loudon.	Loudon.	816	9								8.50	+ 4.33	2.12	0	14	10	7	13	w.	Col. James H. Burrow.
Lynville.	Giles.	770	24	59.0	+ 0.9	79	11†	36	19	32	11.84	+ 7.11	3.82	0	12	9	16	5	s.	Miss Alice L. Headrick.
McGhee.	Monroe.	8									8.62		1.80	0	14	15	0	15	s.	
McMinnville.	Warren.	1,011	28																	Mrs. Sam T. Broyles.
Maryville.	Blount.	1,050	16																	Edward E. Barry.
Mountain City.	Johnson.	2,486	15	55.4	+ 5.2	82	15	22	4	46	5.16	+ 1.51	0.94	0	9	18	8	4		U. S. Weather Bureau.
Nashville.	Davidson.	654	41	60.1	+ 1.0	80	12	35	19	32	11.73	+ 7.37	3.88	0	14	4	13	13	s.	Dr. Charles T. Burnett.
Newport.	Cooke.	1,280	22	58.8	+ 2.1	80	12†	32	4†	36	7.17	+ 3.58	1.58	0	14	9	5	16	s.	Burl W. Buttram.
New River.	Scott.	1,215	5								8.96		3.20	0	8	9	0	21	w.	Mrs. Ross Woods.
Palmetto.	Bedford.	770	19	61.2	+ 2.3	80	11†	34	8†	34	12.51	+ 8.14	3.99	0	12	11	11	8	s.	Oliver C. Kirksey.
Perryville.	Decatur.	387	15	63.5		84	28	35	19	40	14.80	+ 10.87	4.30	0	13	9	7	14		Miss Carrie Cash.
Pinewood.	Hickman.	5	61.2			86	11	30	31	47	11.17		3.15	0	8	2	17	6	s.	Fred Beal.
Rogersville.	Hawkins.	1,150	27	59.6	+ 3.7	83	12	29	4	41	8.03	+ 4.47	2.86	0	15	11	11	8	w.	Samuel G. Wilson.
Ruby.	Morgan.	1,410	24	53.8	+ 3.8	82	12†	26	4	48	9.12	+ 4.58	2.47	0	11	9	7	14	nw.	W. H. Carrington.
Savannah.	Hardin.	442	28	62.8	+ 2.4	81	21	39	9	37	5.11	+ 5.11	2.30	0	14	11	4	15	s.	Herbert C. Eckel.
Sevierville.	Sevier.	6	60.4		84	12	31	4†	41	8.20		1.96	0	15	2	10	13	s.	University of the South.	
Seewane.	Franklin.	2,000	16	57.5	+ 1.9	76	13	33	3†	35	6.66	+ 2.21	2.11	0	10	12	5	13	s.	Ernest H. Hull.
Sparta.	White.	920	6	59.6		83	12†	33	9	41	10.11		1.96	0	10	6	6	18	w.	Hudnall A. Boden.
Springville.	Henry.	377	9	60.3	+ 2.3	83	14	32	19	40	11.74	+ 6.37	4.24	0	13	13	9	8	se.	J. Calloway Carr.
Tazewell.	Claiborne.	15		55.9		81	12	25	4	44	10.44	+ 6.49	2.84	0	15	6	7	17	s.	Reuben T. Moore.
Tullahoma.	Coffee.	1,075	24	60.8	+ 3.5	82	28	32	19	41	7.62	+ 2.97	1.95	0	12	5	11	11	s.	John K. Roberts.
Walling.	White.	909	9								10.69		3.63	0	12	11	6	13	s.	Harry C. Boyd.
Waynesboro.	Wayne.	753	26	60.8	+ 2.2	82	28	32	32	41	13.07	+ 8.84	4.00	0	15	5	14	11	s.	William R. Wilson.
Wildersville.	Henderson.	400	15	61.3	+ 2.8	82	15	34	4	40	10.52	+ 6.39	2.50	0	11	10	6	14	s.	James G. Elizer.
Worsham.	Sumner.	550	11								9.65	+ 5.08	4.05	0	9	11	4	15	w.	William P. Watson.
Yukon.	Lincoln.	850	15	60.2	+ 1.3	80	12†	34	3†	31				0	...	6	18	6	sw.	
<b>Alabama.</b>																				
Bridgeport.	Jackson.	660	12								8.50	+ 4.35	2.12	0	14	9	2	19	e.	R. L. Moore.
Decatur.	Morgan.	573	30	62.0	+ 0.3	83	28	38	9†	36	9.67	+ 5.43	1.82	0	18	9	2	19	e.	Ernest A. Carriger.
Florence.	Lauderdale.	563	28	61.4	+ 0.4	84	27	35	8†	41	7.98	+ 3.53	1.18	0	13	11	2	17	e.	Robt. E. Coburn.
Guntersville.	Marshall.	580	28	63.0*		87	11	37	19	36	7.15		1.65	0	17	9	3	18	e.	L. S. Long.
Madison.	Madison.	573	18								9.03	+ 4.92	2.00	0	11	11	7	12	se.	R. A. Patton.
Riverton.	Colbert.	360	15	59.8	+ 1.2	85	28	31	8	43	8.71	+ 4.45	2.80	0	15	7	4	19	s.	Ernie J. Moore.
Scottsboro.	Jackson.	652	29	62.2*	+ 2.1	81	12†	35	9†	38	6.72	+ 2.18	1.75	0	14	8	5	17	s.	H. A. Caldwell.
Tuscumbia.	Colbert.	488	30	61.0	0.0	82	28	38	3†	35										

TABLE 1.—Climatological data for April, 1912. District No. 3—Continued

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.			
<i>North Carolina—Con.</i>																					
Marshall.....	Madison.....	1,646	10	58.2	+ 4.3	81	12	28	4	44	5.71	+ 1.88	1.31	0	11	13	4	13	w.	M. L. Church.	
Murphy.....	Cherokee.....	1,614	36	.....	.....	.....	.....	.....	.....	.....	7.08	+ 2.08	1.75	0	12	.....	.....	.....	.....	.....	James C. Midgett.
Rock House.....	Macon.....	3,100	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Barry C. Hawkins.	
Transon.....	Ashe.....	2,600	.....	53.2	.....	73	12	22	4	42	3.07	.....	0.72	0	9	17	10	3	nw.	S. M. Transon.	
Waynesville.....	Haywood.....	2,756	18	56.6	+ 4.4	78	12†	26	4	41	5.80	+ 1.95	1.40	0	16	15	1	14	sw.	Judge J. C. L. Gudger.	
<i>Virginia.</i>																					
Big Stone Gap.....	Wise.....	1,540	21	57.1	+ 3.3	81	12	28	4	40	10.47	+ 6.55	2.10	0	9	12	2	16	w.	John W. Fox, sr.	
Blacksburg.....	Monggomery.....	2,170	21	54.1	+ 3.9	80	15	29	4	41	3.41	+ 0.48	0.72	0	12	8	9	13	w.	Agricultural Exp. Station.	
Burke's Garden.....	Tazewell.....	3,250	17	60.2	+ 2.8	75	15	21	4†	41	5.49	+ 1.61	1.50	0	11	12	4	14	w.	C. H. Greever.	
Elk Knob.....	Lee.....	3,243	9	57.2	.....	78	12	29	3	33	9.18	.....	3.04	0	13	9	8	13	sw.	Henry Nicoll.	
Ivanhoe.....	Wythe.....	2,028	8	53.7	.....	74	15	30	4	32	3.20	.....	0.66	0	14	12	14	4	w.	Miss Alice G. Jewett.	
Lebanon.....	Russell.....	2,131	2	56.4	.....	81	15	24	4	41	6.03	.....	2.22	0	9	12	5	13	sw.	R. D. Swain.	
Max Meadows.....	Wythe.....	2,028	16	64.6	+ 3.3	80	15	24	3	45	4.66	+ 1.38	0.90	0	10	15	10	5	sw.	James M. Graham.	
Mendota.....	Washington.....	1,350	3	.....	.....	.....	.....	.....	.....	.....	7.65	.....	2.15	0	14	.....	.....	.....	.....	Frank M. Barker.	
Mountain Lake.....	Giles.....	4,348	2	55.3	.....	74	15	32	3†	35	5.41	.....	1.30	0	9	13	5	12	se.	H. E. Dorland.	
Radford.....	Montgomery.....	1,773	3	.....	.....	.....	.....	.....	.....	.....	4.16	.....	1.06	0	8	.....	.....	.....	.....	Arthur Roberts.	
Speers Ferry.....	Scott.....	1,221	16	.....	.....	.....	.....	.....	.....	.....	8.32	+ 4.59	2.54	0	14	.....	.....	.....	.....	Mrs. L. E. Venable.	
Wytheville.....	Wythe.....	2,293	19	53.4	+ 1.4	78	12	28	4	37	3.61	- 0.05	1.14	T.	12	15	12	3	w.	U. S. Weather Bureau.	

\* b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.



TABLE 2.—*Daily precipitation for April, 1912. District No. 8—Continued.*

TABLE 2.—*Daily precipitation for April, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																													Total.						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
<i>Indiana—Con.</i>																																					
Evansville.....	Ohio.....	.65	.18	.....	.....	.....	.....	.68	.02	T.	.04	.....	.33	.26	.05	T.	.16	.83	T.	T.	.61	.16	.....	.58	1.29	.....	.77	.45	T.	7.02							
Farmersburg.....	Wabash.....	.25	.70	.....	.....	.....	.....	T.	.10	.....	.04	.....	.10	.14	.....	T.	.....	.53	T.	T.	.03	T.	.....	.90	.....	.71	.31	T.	3.81								
Farmland    .....	West Fork, White.....	.....	.84	.58	.....	.....	.....	.....	.52	.....	.....	.....	.41	.06	.....	.....	.15	.60	.02	.....	.....	.11	.....	.....	T.	.....	.35	.....	.47	.26	4.37						
Forest Reserve.....	Ohio.....	.18	.50	.....	.....	.....	.....	.07	.....	T.	.....	.....	.50	.02	T.	.....	1.02	.....	.....	T.	.....	.70	.....	.....	.....	1.69	.02	.....	.02	.93	.01	5.75					
Greenfield.....	East Fork, White.....	.22	.96	.....	.....	.....	.....	.63	.....	T.	.....	.....	.15	T.	.....	.70	.....	.....	.....	.....	.05	.....	.....	.....	1.02	.....	.43	.....	.35	.....	4.51						
Greensburg.....	do.....	.32	.28	.....	.....	.....	.....	.40	.....	.....	.....	.....	.20	.40	.....	.....	.30	.60	.....	.....	.09	1.23	.....	.....	.....	.....	2.05	.06	.....	.12	.75	5.00					
Huntingburg.....	Wabash.....	.13	.85	.....	.....	.....	.....	1.06	.....	.....	.....	.....	.35	.....	.....	.....	1.37	.60	.....	.....	.09	1.23	.....	.....	.....	.....	2.05	.06	.....	.12	.75	8.06					
Huntington.....	do.....	.25	.10	.....	.....	.....	.....	.22	.....	.....	.....	.....	.65	.05	T.	.....	.50	.60	.....	.....	.10	.80	.03	.....	.....	1.0	.....	.45	.60	.05	4.40						
Indianapolis.....	West Fork, White.....	.46	.83	.....	.....	.....	.....	.36	.08	.....	.03	.01	.16	.01	.08	.....	.73	T.	T.	.05	T.	.....	.60	.....	.78	.44	.....	.....	.....	.....	.....	4.62					
Jeffersonville.....	Ohio.....	.22	.87	.....	.....	.....	.....	T.	.25	.....	.....	.....	.61	.22	.....	.....	1.11	.....	T.	.....	.02	.84	.....	.....	.....	.....	3.19	.04	.....	.59	.70	T.	8.66				
Judyville.....	Wabash.....	.47	.12	.....	.....	.....	.....	T.	.41	.....	T.	T.	.58	T.	.04	.....	.75	.04	T.	.04	.03	.....	.....	.31	.10	.....	.80	.01	.....	3.74							
Kokomo.....	do.....	.35	.12	.....	.....	.....	.....	.17	.....	T.	.....	T.	.65	.17	.44	.....	.47	T.	.....	.10	.....	.....	.....	1.1	.....	.61	1.02	T.	4.33								
Lafayette    .....	do.....	.42	.15	.....	.....	.....	.....	T.	.23	.....	T.	.....	.78	.20	.....	.....	.06	.10	.....	T.	.....	.04	.....	.34	.....	.75	.52	.....	4.22								
Laurel.....	Whitewater.....	.04	.33	.....	.....	.....	.....	.25	.....	.....	.....	.03	.....	.36	.55	.03	.....	.55	.45	.....	.....	.33	.....	.....	.30	1.39	.....	.65	.53	5.79							
Logansport.....	Wabash.....	.28	.....	.....	.....	.....	.....	.22	.....	.....	.....	.....	.96	.04	.....	.....	.48	.05	.04	.....	.26	.18	.....	.07	.15	.....	.40	.36	3.48								
Madison.....	Ohio.....	* 1.00	.....	.....	.....	.....	.....	.10	.06	.....	.....	.....	.54	.31	.07	.....	.90	.....	.....	.....	.53	.....	.....	.....	1.80	.10	.....	14.14	.04	6.73							
Marengo.....	do.....	.83	T.	.....	.....	.....	.....	.50	.....	.....	.....	.....	.60	T.	.03	.....	.13	.37	.03	.....	.....	.08	T.	.....	.10	.....	.80	.12	4.66								
Marion    .....	Wabash.....	.74	.35	.....	.....	.....	.....	.17	.....	.....	.....	.....	.60	T.	.03	.....	.13	.37	.03	.....	.....	.08	T.	.....	.10	.....	.80	.12	4.66								
Mauzy.....	East Fork, White.....	.26	.91	.....	.....	.....	.....	.49	.....	.....	.....	.....	.44	.12	.....	.....	.75	T.	.....	T.	.10	.....	.....	.81	.....	.43	.41	.03	4.75								
Monticello    .....	Wabash.....	.20	.....	.....	.....	.....	.....	.50	T.	.....	.....	.....	2.00	T.	.....	.....	.10	.....	T.	.05	.....	.26	.06	T.	.15	.....	.....	.35	.75	4.42							
Moores Hill.....	Ohio.....	.13	.50	.....	.....	.....	.....	.18	.....	.....	.....	.....	.60	.30	.25	.....	1.30	.....	T.	.40	.....	.02	.....	.26	.02	.....	.88	.38	6.77								
Mount Vernon    .....	do.....	.03	.80	.30	.....	.....	.....	.61	.....	.....	.....	.....	.42	T.	.....	.02	.25	.35	.....	.....	.16	.....	.....	1.10	.30	.....	.58	.10	5.02								
Nashville.....	East Fork, White.....	.19	.83	.....	.....	.....	.....	.74	T.	.....	.05	.....	.09	.78	.....	.....	.95	T.	T.	.....	.25	.....	.....	.01	.17	.....	.45	.....	5.51								
Paoli.....	do.....	.14	.59	.....	.....	.....	.....	.50	.....	.....	.....	.....	.33	.06	.....	.....	.80	.....	.....	.06	.75	.....	.....	1.92	T.	.16	.57	.11	5.99								
Princeton.....	Wabash.....	.05	.73	.....	.....	.....	.....	.63	.....	.....	.....	.....	.23	.18	.....	.....	.76	.....	.....	.08	.27	.....	.....	.29	.....	.53	.26	.....	6.62								
Richmond.....	Whitewater.....	.38	.60	.....	.....	.....	.....	.18	.13	.....	.02	.02	.08	.24	.77	.....	.81	.....	.....	.03	.05	T.	.70	.....	.05	.42	.53	5.01									
Rochester.....	do.....	.16	.....	.....	.....	.....	.....	.30	.....	.....	.....	.....	.01	.35	.....	.....	.35	.12	.....	T.	.19	.....	.....	.07	.....	.01	.65	.....	2.21								
Rockville.....	do.....	.55	.80	.....	.....	.....	.....	.33	.....	.....	.....	.....	.33	.20	.....	.....	.68	T.	T.	T.	.63	.....	T.	.63	.....	1.57	.30	T.	5.27								
Rome.....	do.....	.22	1.20	.....	.....	.....	.....	.38	.....	.....	.....	.....	.60	.08	.....	.....	.46	.....	T.	.04	1.08	.....	.....	1.57	.37	T.	1.57	.01	7.58								
Salamonie.....	Wabash.....	.40	1.05	.....	.....	.....	.....	.50	.....	.....	.....	.....	.25	.18	.....	.....	.85	.02	.....	.....	.03	.....	.....	.26	.....	.01	.26	.....	4.51								
Salem.....	do.....	.15	.55	.....	.....	.....	.....	.66	.....	.....	.....	.....	.52	T.	.....	1.05	.....	.....	.....	.....	.03	.35	.....	.....	.26	.....	.18	.67	0.04	5.35							
Scottsburg.....	East Fork, White.....	.19	.58	.....	.....	.....	.....	.38	.....	.....	.....	.....	.60	.11	.....	.....	.12	.....	.....	.....	.71	.....	.....	.....	2.51	.....	.21	.47	T.	6.88							
Seymour.....	do.....	.88	.....	.....	.....	.....	.....	.47	.....	.....	.....	.....	.37	.05	.....	.....	1.41	T.	.....	.....	.01	.32	T.	.....	.....	2.86	.....	* .95	.06	7.37							
Shelbyville.....	do.....	30.01	.....	.....	.....	.....	.....	.71	.....	.....	.....	.....	.41	.38	.....	.....	.76	.....	.....	T.	.23	.....	.....	.75	.....	.31	.57	.10	5.55								
Shoals    .....	do.....	.30	.50	.....	.....	.....	.....	.06	.24	.....	.....	.....	.10	.04	.....	.....	.92	.....	.....	T.	.22	.....	.....	.78	.....	1.20	1.80	T.	.71	.12	6.90						
Terre Haute.....	Wabash.....	.38	.60	.47	.....	.....	.....	.06	.24	.....	.....	.....	.02	.15	.....	.....	.70	.10	.....	.04	.03	.....	.....	.35	.....	1.18	1.50	.44	.02	8.19							
Vevey.....	do.....	.62	.27	T.	.....	.....	.....	.12	.....	.....	.....	.....	.30	.15	.....	.....	.70	.10	.....	.....	.04	.03	.....	.....	.35	.....	1.04	.72	0.03	5.03							
Vevay.....	Ohio.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....							
Vincennes    .....	Wabash.....	.05	.20	.85	.....	.....	.....	.40	.....	.....	.....	.....	.28	.24	.16	.....	1.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.05						
Washington.....	West Fork, White.....	.84	.....	.....	.....	.....	.....	.88	.....	.....	.....	.....	.39	T.	.....	.....	.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.37						
Whitehouse    .....	do.....	.68	.56	.....	.....	.....	.....	T.	.17	T.	.....	.02	T.	.....	.62	.02	T.	.....	.04	.53	.....	.01	.01	.....	.....	.20	.20	.....	1.08	10	4.28						
Whitona Lake.....	Wabash.....	.23	.....	.....	.....	.....	.....	T.	T.	.....	.....	.....	.73	.14	.....	.....	.34	.16	.....	T.	.....	.03	.....	.....	.....	.05	.....	.....	.....	2.66							
Worthington.....	West Fork, White.....	.22	.80	.....	.....	.....	.....	.47	.....	.....	.....	.....	.08	.20	T.	.....	.63	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.40	.49	.24	T.	4.66					
<i>Illinois.</i>																																					
Albion.....	Wabash.....	.10	.86	.....	.....	.....	.....	.30	.....	.....	.....	.....	.30	.16	.....	.....	.94	.....	.....	.....	.07	.45	.....	.....	.....	.....	2.25	.....	.18	.18	.....	5.79					
Carroll.....	do.....	.33	.75	.....	.....	.....	.....	T.	.22	.....	.....	.....	.17	.....	.....	.....	.78	T.	.....	.....	.35	.....	.....	.....	.83	.....	.03	.12	.....	5.45							
Casey.....	do.....	.45	.31	.....	.....	.....	.....	.33	.....	.....	.....	.....	.25	.01	.....	.....	.04	.38	.....	.....	.26	.....	.....	.....	.30	.....	.06	.....	.05</td								

TABLE 2.—*Daily precipitation for April, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for April, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																													Total.						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
<i>North Carolina.</i>																																					
Altapass.....	Tennessee.....	.06	.20					T.							T.	T.																	3.06				
Andrews.....	do.....	.60	.20					.85		.01					T.	.30	.10	.30	.30	.21	.128											6.60					
Asherville.....	do.....	.77	.02					T.	.03						T.	.23	.48	.13	T.	.16	T.	.96										4.17					
Banners Elk.....	do.....	.53	.37					.30								.35	.32		.18			.1.00										5.18					
Blantyre.....	do.....	.40	T.					.10								.30		.10		.10	.1.60											3.80					
Blowing Rock.....	Great Kanawha.....	.46	.34					.27									.09			.04	.1.00											3.52					
Brevard.....	Tennessee.....	.63	.10					.10							T.	.65	.97			.25	.10	.65										5.75					
Bryson City  .....	do.....	.97	.21					.14	.40							.45	.17	.35	.18		.19	.97	.55										7.10				
Cullowhee.....	do.....	.83	.03					.24		T.					.03	T.	.12	.08	.45		.13	T.	.1.28	T.									5.21				
Eagle Nest.....	do.....	.71	.15					.22	.12							.13	.12	.17	.37			.17	.45	.08									5.89				
Hendersonville.....	do.....	.34															.50	.50		.70	.65	.20		.05	.1.55									4.54			
Highlands.....	do.....	.20	.48					.20								.25			.10		.15	.20	.40										7.59				
Hot Springs.....	do.....	.95	.65					.25								.10		.87	.12	.27	.05		.11		.1.35									7.05			
Jefferson.....	Great Kanawha.....	1.60	.34					.63								T.			.30			.12		.85			T.	.58								4.87	
Marshall.....	Tennessee.....	1.05	.28					.10								T.	.18	.20	.40		.38		.1.31					T.	1.04								5.71
Murphy  .....	do.....	.20	.40	T.				.41	T.	T.							.70	.92	.56		.20		.1.65										7.08				
Rock House.....	Savannah.....	.37	.34					.16								.12		T.	.28			.09	T.	.72				T.	.52								3.07
Transon.....	Great Kanawha.....	T.	.74	.13				.27	.11							.07		.14	.13	.14	.38		.20	.1.40	.10									5.80			
Waynesville  .....	Tennessee.....																																				
<i>Virginia.</i>																																					
Big Stone Gap.....	Tennessee.....	.70	1.85					.72								.15		T.	.1.35																10.47		
Blacksburg.....	Kanawha.....	.20	.52					.35								.05	T.	.04	.12	.20		T.	T.	.58									3.41				
Burkes Garden.....	Tennessee.....	.22	1.50					.30								T.	.63	.12	.05				.40										5.49				
Elk Knob.....	do.....	1.00	1.95					.72								.13		.05	.45	.60		.02	.81										9.16				
Ivanhoe.....	Kanawha.....	T.	.68	.20				.20	.10	T.						.04	T.	.35	.20	.02		T.		.16	.48								3.20				
Lebanon.....	Tennessee.....	.51	1.71					.30								.31		.20					.61										6.03				
Max Meadows.....	Kanawha.....	.87						.37								.25		.36	.27	.33		T.	.90										4.66				
Mendota.....	Tennessee.....	.2	1.15	.50				.40								.18	.20	.08	.40	.30	.28		.55	.30									7.56				
Mountain Lake.....	Kanawha.....	.130						.60								.20		.30	.40			.60											5.41				
Radford.....	do.....	.70	.28					.30	T.									.20				.30	.42			.90	T.								4.16		
Spears Ferry.....	Tennessee.....	.2	.54	.20				.48	.32							.10		.55	.24	.28		.60	.36										8.32				
Wytheville.....	Kanawha.....	.42	.72	T.				.19								.03		.36	.05	.18		.01	.66										3.61				

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures for April, 1912. District No. 3.*

Date.	Pennsylvania.				West Virginia.								Ohio.								Canton.		Cincin-		Colum-		Dayton.		
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.		Morgantown.		Parkersburg.		Wheeling.		Canton.		Cincin-		Colum-		Dayton.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
1....	63	24	66	41	68	46	66	42	67	49	70	32	66	41	61	46	67	40	62	36	61	53	58	42	58	42			
2....	53	29	55	30	74	55	70	52	71	30	72	52	70	50	61	40	60	34	44	42	35	35	58	34	52	32	46	30	
3....	36	25	35	29	60	35	62	30	40	39	52	34	51	35	42	30	45	34	59	32	37	28	49	30	41	28	44	23	
4....	57	27	59	32	68	31	65	28	62	25	69	24	68	30	60	27	66	31	68	27	62	28	63	36	63	32	66	35	
5....	72	36	69	51	74	42	68	35	67	31	74	33	73	35	69	49	73	49	76	37	72	36	74	56	71	50	72	53	
6....	73	45	74	56	77	47	70	42	77	43	80	31	78	51	74	56	75	58	80	45	76	49	74	54	73	52	72	55	
7....	65	30	66	31	77	45	66	38	60	35	77	42	76	54	67	55	66	56	52	52	49	45	58	39	61	33	57	35	
8....	43	26	44	29	56	31	53	27	47	26	58	27	55	33	49	28	54	32	57	30	48	27	58	34	54	31	57	32	
9....	66	26	65	40	72	35	68	30	66	32	72	31	59	31	65	35	69	36	71	32	66	31	68	42	65	39	66	49	
10....	56	30	57	38	72	48	68	42	60	35	70	44	72	34	64	48	63	46	66	49	54	36	68	52	58	47	63	50	
11....	72	27	70	38	75	40	75	37	71	28	79	31	70	40	72	33	74	37	79	32	74	33	78	46	72	43	73	44	
12....	72	26	77	55	84	51	79	40	80	35	87	40	76	38	82	48	83	42	79	45	81	53	79	54	78	56	78	56	
13....	68	45	69	54	83	58	78	42	70	51	74	56	81	43	78	45	74	56	71	46	70	49	69	58	68	56	69	57	
14....	65	52	67	57	79	58	79	44	71	59	75	53	73	57	76	61	74	55	73	51	61	59	77	59	76	58	76	58	
15....	80	54	80	60	83	60	81	47	81	58	86	61	82	58	81	61	83	63	85	62	79	55	82	64	79	62	80	61	
16....	72	43	75	53	80	58	75	53	77	50	84	52	83	63	77	59	79	57	85	54	72	48	72	57	68	54	68	53	
17....	53	42	61	49	81	60	75	58	71	55	80	52	79	55	72	49	67	52	61	49	55	43	60	49	54	46	55	43	
18....	58	41	58	37	80	50	74	50	62	38	68	47	78	56	67	49	61	42	61	52	50	41	49	38	53	37	49	36	
19....	49	33	48	36	58	40	56	35	50	32	60	39	52	51	50	36	55	39	58	38	52	34	57	36	53	33	54	33	
20....	61	28	59	38	66	44	60	30	61	30	69	35	59	39	61	35	64	43	69	36	67	44	64	44	63	46	63	46	
21....	71	30	71	43	74	43	68	42	67	32	73	36	65	40	73	41	72	44	76	31	73	38	69	49	70	46	62	47	
22....	70	47	68	40	76	55	72	49	72	43	77	49	74	43	72	53	74	46	74	47	71	54	64	45	67	42	61	42	
23....	54	33	53	35	76	44	68	38	53	34	65	41	74	47	68	38	58	41	63	39	57	33	62	43	58	35	59	37	
24....	62	35	64	44	71	40	65	34	63	33	71	31	72	40	64	40	69	42	70	38	66	39	71	51	67	46	67	44	
25....	63	28	64	38	73	43	72	39	70	35	78	36	72	43	66	46	70	40	75	33	68	33	71	49	67	41	69	42	
26....	63	46	64	56	75	56	73	56	65	56	76	50	71	47	67	55	71	57	65	48	67	51	64	56	62	55	61	54	
27....	62	39	65	42	71	57	64	53	66	46	75	55	73	57	69	52	69	52	76	56	62	55	54	63	56	60	54	59	
28....	57	26	59	36	76	45	74	50	73	33	75	39	72	47	65	35	65	43	65	36	57	30	60	49	54	40	52	44	
29....	52	43	65	47	78	61	76	41	75	58	78	51	76	51	73	52	75	54	72	46	61	41	71	46	70	43	69	42	
30....	58	32	53	42	76	49	65	46	58	46	70	48	56	50	72	45	60	47	55	46	51	45	51	40	52	43	52	43	
Mns..	61.5	35.3	62.7	42.6	73.8	47.6	69.5	41.9	65.8	39.6	73.2	41.9	70.3	45.2	66.8	44.1	67.7	45.5	68.6	42.4	62.1	40.0	66.3	47.5	63.1	43.7	62.9	44.2	
Ohio.		Indiana.								Kentucky.								Philo, Ill.		Beattyville.		Bowling Green.		Earlington.		Greensburg.		Lexington.	
Date.	Marion.		Waverly.		Butlerville.		Evansville.		Indianapolis.		Kokomo.		Rockville.		Worthington.				Beattyville.		Bowling Green.		Earlington.		Greensburg.		Lexington.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
	65	35	62	32	68	51	58	54	56	41	56	40	47	43	69	50	56	38	64	30	60	47	61	55	60	39	58	53	
1....	55	30	43	43	58	33	58	38	41	32	44	31	44	32	57	33	50	33	71	45	65	52	52	68	42	66	34	67	34
2....	44	24	48	30	51	30	54	37	48	29	48	24	50	27	53	31	53	30	55	30	66	35	61	33	58	34	67	34	
3....	64	31	69	27	70	36	70	45	71	38	70	33	66	37	71	36	72	36	75	25	78	75	77	39	76	35	76	35	
4....	72	47	73	29	74	52	69	54	73	51	71	51	69	51	74	51	74	49	77	26	78	48	77	50	75	35	71	50	
5....	77	47	77	45	74	55	66	52	73	51	73	53	65	54	74	56	73	51	78	38	71	53	73	59	71	54	74	54	
6....	69	38	51	50	65	38	55	40	51	36	65	32	54	37	65	39	61	36	54	42	57	45	55	42	56	39	59	39	
7....	55	27	60	27	61	28	59	40	57	34	57	31	54	29	60	31	60	29	62	25	68	32	64	34	59	31	55	33	
8....	68	37	68	31	68	39	69	49	66	41	67	41	63	40	69	37	71	38	66	29	78	31	73	30	68	26	68	32	
9....	62	39	67	47	73	49	66	54	66	51	67	41	67	45	73	46	71	41	78	48	76	74	71	48	74	53	73	53	
10....	75	38	77	32	78	48	75	54	75	50	73	43	72	45	79	47	75	44	78	35	84	48	80	51	81	41	74	51	
11....	82	50	84	43	81	52	77	58	78	52	57	53	80	61	77	53	79	43</td											

TABLE 3.—Maximum and minimum temperatures at selected stations for April, 1912. District No. 3—Continued.

Date.	Kentucky.						Tennessee.										Decatur, Ala. §§				Asheville, N. C.		Virginia.					
	Louisville.		Maysville. §§		Williams- burg. §§		Chatta- nooga.		Johnson City. §§		Knoxville.		Nashville.		Palmetto.		Sparta.		Waynes- boro.				Big Stone Gap.		Wythe- ville.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	61	56	62	39	60	37	63	52	64	49	57	53	61	54	64	54	62	55	73	53	79	54	59	47	58	45	63	44
2....	61	39	59	51	74	53	72	42	74	51	74	41	66	41	71	46	71	45	73	45	74	47	74	39	71	52	71	34
3....	51	36	51	31	55	34	62	39	54	34	57	36	61	40	65	35	58	34	66	32	69	42	49	33	59	33	47	32
4....	74	37	72	29	74	32	70	42	69	29	68	35	72	42	74	40	63	35	75	38	73	45	66	30	55	28	63	28
5....	75	60	76	30	75	41	72	32	71	32	71	46	74	57	74	60	70	35	74	53	72	55	67	38	58	36	60	32
6....	72	59	76	49	74	51	70	55	72	42	72	50	68	59	67	57	75	35	70	58	66	57	70	43	70	41	69	38
7....	59	42	61	46	61	47	59	46	55	52	56	41	60	45	62	46	61	45	61	46	56	52	61	37	67	41	57	36
8....	60	39	61	28	60	31	62	42	61	31	56	36	59	42	62	34	63	36	61	37	58	41	55	34	56	30	52	30
9....	71	42	72	30	77	31	73	40	61	33	71	37	72	40	66	40	74	33	74	33	74	38	69	30	70	30	64	28
10....	72	54	72	36	73	38	69	52	71	36	72	56	71	58	76	54	73	52	75	53	69	54	67	46	71	44	66	45
11....	79	51	80 <sup>a</sup>	36	80	40	79	54	79	41	79	48	78	53	80	58	80	48	80	54	78	53	74	45	76	40	73	36
12....	82	56	86	37	85	44	80	56	83	51	82	54	80	55	79	56	83	49	78	52	81	56	76	53	81	47	78	46
13....	75	59	74	46	80	52	75	63	76	53	77	62	76	62	75	62	82	63	72	52	76	61	67	57	77	56	68	54
14....	79	63	84	56	82	53	71	62	76	56	72	58	78	63	74	61	72	61	80	61	73	62	71	58	78	50	68	57
15....	85	64	84	60	78	57	70	61	81	59	76	56	72	59	70	59	71	59	73	62	65	57	73	60	70	58	77	52
16....	72	58	81	54	78	55	71	59	76	57	75	58	70	56	68	55	71	59	63	60	66	55	68	59	75	54	71	53
17....	69	43	68	53	73	56	75	59	80	60	75	59	72	50	76	60	78	61	69	58	75	54	75	57	73	55	74	57
18....	44	39	44	42	53	50	59	44	62	56	59	45	50	42	60	42	66	45	58	47	61	48	63	40	62	48	62	38
19....	60	37	61	33	64	35	65	39	66	41	60	41	59	35	60	34	63	34	63	32	64	38	62	38	63	44	58	37
20....	67	49	70	35	75	40	61	50	63	42	64	49	68	50	72	51	66	48	68	60	67	39	54	44	61	44	53	38
21....	72	60	74	37	79	41	68	53	81	43	79	48	71	53	74	56	81	48	75	54	76	54	65	48	73	42	58	44
22....	63	46	70	44	78	42	78	51	74	53	77	49	72	48	77	54	75	36	73	55	76	49	72	55	68	46	73	57
23....	66	43	66	38	78	38	70	45	65	39	67	43	68	41	71	40	66	38	70	37	62	42	58	40	64	38	56	39
24....	74	49	75	39	78	40	76	46	71	38	72	44	76	48	77	45	74	43	77	43	75	46	66	39	70	37	64	34
25....	78	51	78	40	80	40	77	49	78	41	79	46	77	50	78	50	80	46	79	43	80	49	72	40	77	41	72	40
26....	66	56	68	43	70	42	74	63	72	43	75	61	74	58	75	61	71	60	78	59	82	54	66	57	71	57	64	51
27....	71	57	73	55	82	52	67	56	68	56	67	54	71	58	69	56	70	57	71	58	74	68	63	52	68	55	63	50
28....	77	54	72	43	83	50	79	55	82	49	79	51	79	58	80	57	83	54	82	58	83	58	73	45	78	46	78	41
29....	72	51	75	51	78	48	78	60	77	55	75	59	78	60	78	60	78	60	78	60	80	68	69	56	76	54	69	58
30....	58	48	56	45	60	50	71	56	65	55	64	52	58	48	64	50	69	50	66	50	68	55	64	52	63	53	60	45
Mns.	6.88	49.6	69.7	41.2	73.4	44.0	70.5	51.4	70.9	45.9	70.2	48.9	69.6	50.6	71.3	51.1	71.6	47.5	71.8	49.8	71.6	52.3	66.3	45.5	69.1	45.1	69.4	42.0

<sup>a</sup>, <sup>b</sup>, <sup>c</sup>, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

§§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.